Phenomenal Aire

Product Specifications & Installation Guide

Series C6.0 & C10.0

Technology Powered by Needlepoint Clusters™

A *single* Needlepoint Cluster™ can generate up to 190 Million Ions

ASSEMBLED IN THE USA

Needlepoint Cluster™

Product Specifications

- ETL Listed / UL-867
- Air Flow Capacity & Area of Coil Face Coverage–
  C 6.0 0 to 6,000 CFM (4'X4' Coil Face)
  C10.0 6,000 to 10,000 CFM (6'X6' Coil Face)
- Voltage – 16 to 35 VAC; Power with 24 VAC
- Pressure Drop – < 0.05″ WC
- Power Consumption – 12 VA
- Needlepoint Probe Length – 6″ & 10"
- Frequency – 50 Hz – 60 Hz
- Electrode – Carbon Resin
- Temperature Range – -20 F to 140 F
- Ionization Generation – Needlepoint Bi-Polar
- Ion Generation (Output)-
  C 6.0 360 million ions/cc/sec per inch of Stinger™
  C10.0 360 million ions/cc/sec per inch of Stinger™
- Ion Status - Green LED
- Humidity Range – 0-99%
- Mounting Box – ABS UL 94 Plastic
- UV Weatherization Coating for Exterior Mounting
- Optional BAS Alarm Signal
- Power Head Dimensions – 5" Diameter x 3.5" High
- Weight – 5 lbs
- Warranty = Standard 1 yr / 3 Yrs with electronic registration

	Needlepoint Clusters	Ions Generated
Series C-6	16	3 Billion
Series C-10.0	32	6 Billion

Product Installation Duct Mounting

Mount TPI Series C6.0 or C10.0 so the needlepoint clusters (brushes on grey bars) are perpendicular (90 degrees) to the direction of the air flow preferably on the return side of the coils, just before the coils. Arrow on bottom of cannister should point in the direction of the air flow.

1. Disconnect power to the air handler in which the product will mount.
2. Drill a 3.5" hole in the duct, preferably before the cooling coil, but after a prefilter. Do not mount the product before a filter as the filter will capture or stop the ions.
3. Unscrew top of TPI Series C6.0 or C10.0 while holding the base in place.
4. Fasten TPI Series C6.0 or C10.0 to the ductwork through two dog ears or hole markings inside housing using the two self tapping sheet metal screws.
5. Thread power supply wires through supplied fitting nut and then through one of the two holes on the side of housing. Make sure to use the hole that allows for easy sight of LED light. Use supplied plug to seal the hole not in use.
6. Feed wire through the other half of the fitting. Screw the two pieces of the fitting together. (nut on inside of housing and second piece on outside). The installer may use Heyco liquid tight tubing (provided by others) or as local codes require based on the installation location.
7. Install multi-option transformer per local code. For C6.0 or C10.0 installation: using a volt meter, confirm that output voltage for the 24 VAC leads is between 16 and 35 VAC. Connect the Phenomenal Aire unit to the 24 VAC leads. Polarity is not a concern
8. Screw cover onto housing by holding the housing with one hand and the lid with the other.
9. Return power to blower motor. Green LED should be illuminated, indicating the munit is properly working.
10. Replace filter media 60 days after Phenomenal Aire installation and activation to accommodate for above normal loading conditions.

Special mounting instructions for duct board application

The suggested manor for mounting the CPG unit, in a duct board application, is through the use of toggle bolts in place of the supplied self-tapping metal screws. The bolts are to be inserted through the mounting tabs located on each side of the unit housing. Installer will need to pre-drill holes in duct board. Hole size should be determined by measuring the width of the toggle bolt's wing structure when in the folded position.

Warning

1. **Do not touch electrodes or needles while operating – shock may occur**
2. **Do not use an extension cord to plug in the product**
3. **Always disconnect power before installing or servicing**
4. **Always disconnect power before attempting to replace the fuse**
5. **The product should not be installed behind a suspended floor/ceiling or a structural wall**
6. **This product is suitable for installing into a duct of metallic or fiber duct board**
7. **When cleaning probes, use soft bristled brush ensuring not to damage needlepoints**
8. **Follow all local and national electric codes when wiring**

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